Alex Garcia Castañeda 2259517 1. Iniciar minikube y obtener los nodos

```
Windows PowerShell X + V

PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> minikube start

minikube v1.34.0 en Microsoft Windows 11 Home Single Language 10.0.26100.4351 Build 26100.4351

minikube 1.36.0 is available! Download it: https://github.com/kubernetes/minikube/releases/tag/v1.36.0

To disable this notice, run: 'minikube config set WantUpdateNotification false'

Using the docker driver based on existing profile
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.45 ...
Restarting existing docker container for "minikube" ...
Failing to connect to https://registry.k8s.io/ from inside the minikube container
To pull new external images, you may need to configure a proxy: https://minikube.sigs.k8s.io/docs/reference/networking/proxy/
Preparando Kubernetes v1.31.0 en Docker 27.2.0...
Verifying Kubernetes components...
Using image gcr.io/k8s-minikube/storage-provisioner:v5
Complementos habilitados: storage-provisioner, default-storageclass
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> kubectl get nodes
NAME STATUS ROLES AGE VERSION
minikube Ready control-plane 37d v1.31.0
PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs>
```

1. Desplegar la aplicación

```
PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> kubectl create deployment nginx-deploy —image=nginx deployment.apps/nginx-deploy created

PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> kubectl get pods

NAME READY STATUS RESTARTS AGE

PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> kubectl get pods

NAME READY STATUS RESTARTS AGE

READY STATUS RESTARTS AGE

NAME READY STATUS RESTARTS AGE

READY STATUS RESTARTS AGE

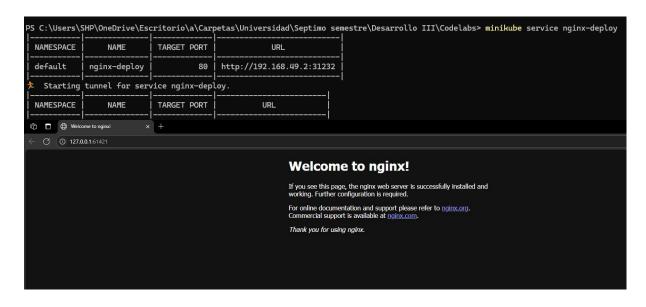
PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> kubectl get pods

NAME READY STATUS RESTARTS AGE

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READY STATUS RE
```

2. Accedo a nginx



3. Escalar la aplicación

```
PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> kubectl scale deployment nginx-deploy --replicas=3 deployment.apps/nginx-deploy scaled
PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> kubectl get pods

READY STATUS RESTARTS AGE

nginx-deploy-5fd7574f9f-bld68j 0/1 ContainerCreating 0 3s
nginx-deploy-5fd7574f9f-ggms8 1/1 Running 0 6m8s
nginx-deploy-5fd7574f9f-rtz7u 0/1 ContainerCreating 0 3s
PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> kubectl get pods

READY STATUS RESTARTS AGE
0 6m8s
0 6m8s
0 6m8s
0 13s
0 6m8s
0 6ms
0 6m8s
0 6ms
0 6
```

4. Eliminar todo

```
Windows PowerShell X + V

PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> kubectl delete service nginx-deploy service "nginx-deploy" deleted

PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> kubectl delete deployment nginx-deploy deployment.apps "nginx-deploy" deleted

PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> minikube stop

PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs> minikube stop

Stopping node "minikube" ...

Apagando "minikube" mediante SSH...

1 node stopped.

PS C:\Users\SHP\OneDrive\Escritorio\a\Carpetas\Universidad\Septimo semestre\Desarrollo III\Codelabs>
```